

CLAIMS

What I claim is:

1. A process for producing hydrophobic cotton fabric that is useful as material for forming a wide variety of useful articles, said process including the steps of:

- (1) bleaching cotton fabric with an optical whitener;
- (2) affixing the fabric to a conveying machine;
- (3) applying 7 lbs. of water resistance solution for each approximately 100 lbs. of fabric by conveying the fabric through a pad bath;
- (4) conveying the fabric through a tenter frame machine having a heating chamber set at approximately 340°F, such that the fabric passes through the heating chamber at a speed of approximately 17 yards per minute; and
- (5) repeating step (4) a second time to effect curing of the chemicals thereby resulting in a water-resistant cotton fabric.

2. A process for producing hydrophobic cotton fabric according to claim 1, wherein said water resistance solution consists of 5 lbs. of Marpel FC and 2 lbs. of Marpel SG per 100 lbs of fabric.

3. A process for producing hydrophobic cotton fabric according to claim 1, further including the step of applying an anti-microbial.

4. A process for producing hydrophobic cotton fabric according to claim 1, further the step of applying an anti-fungal substance to said fabric.

5. A process for producing hydrophobic cotton fabric according to claim 1, further including the step of applying an anti-stain substance to said fabric.

6. A process for producing nylon fabrics or blends containing substantial amounts of nylon with polyester, polypropylene, cotton, rayon or wool, having hydrophobic and antimicrobial properties, said process including the steps of:

(1) affixing the fabric to a conveying machine;

(2) applying approximately 3 lbs. of antibacterial substance and 2 lbs. of water repellant for each approximately 100 lbs. of fabric by conveying said fabric through a pad bath;

(3) conveying said treated fabric through a tenter frame machine having a heating device set for approximately 325°F at a speed of approximately 40 yards per minute; and

(4) repeating step (3) a second time to effect curing of the chemicals thereby resulting in a water-resistant cotton fabric.

7. A process for producing nylon fabrics or blends containing substantial amounts of nylon with polyester, polypropylene, cotton, rayon or wool, having hydrophobic and antimicrobial properties according to claim 6, wherein said antibacterial substance includes triclosan.

097549-104